

Fujitsu recommends Windows 8 Pro.

# Data Sheet

## Fujitsu ESPRIMO PH300 E85+ Desktop PC

Your Immediately Available Multimedia PC

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The Fujitsu ESPRIMO PH300 E85+ is equipped with the latest Intel® technology including Hyper-Threading and Turbo Boost functionality. This solid performer provides a timeless design fitting perfectly into your home environment. The Fujitsu ESPRIMO PH300 E85+ is available from your dealer at all times and is thus an ideal choice for quick purchase decisions.

### Intelligent performance

The ideal PC for the day-to-day challenges of office life

- 3rd generation Intel® Core™ i3, Core™ i5, and Core™ i7 processors

### Designed and engineered in Germany

Outstanding quality and stable functions based on German production standards

- The development, production and function tests are all under one roof in Germany

### Multimedia experience

Enjoy high-definition multimedia and entertainment

- Optional with powerful NVIDIA® GeForce® GT 420 with 1 GB or 2 GB VRAM for graphically rich content, quick transfer of photos with the integrated multi card reader



# Components

<b>Processor</b>	Intel® Core™ i7-3770 processor (4 Cores / 8 Threads, 3.40 GHz, up to 3.9 GHz, 8 MB, Intel® HD Graphics 4000) *
	Intel® Core™ i5-3470 processor (4 Cores / 4 Threads, 3.20 GHz, up to 3.6 GHz, 6 MB, Intel® HD Graphics 2500) *
	Intel® Core™ i5-3330 processor (4 Cores / 4 Threads, 3.00 GHz, up to 3.2 GHz, 6 MB, Intel® HD Graphics 2500)
	Intel® Core™ i3-3220 processor (2 Cores / 4 Threads, 3.30 GHz, 3 MB, Intel® HD Graphics 2500)
	Intel® Core™ i3-2130 processor (2 Cores / 4 Threads, 3.40 GHz, 3 MB, Intel® HD Graphics 2000)
	Intel® Pentium® processor G870 (2 Cores / 2 Threads, 3.10 GHz, 3 MB, Intel® HD Graphics)
	Intel® Pentium® processor G645 (2 Cores / 2 Threads, 2.90 GHz, 3 MB, Intel® HD Graphics)
	Intel® Pentium® processor G2120 (2 Cores / 2 Threads, 3.10 GHz, 3 MB, Intel® HD Graphics)
	Intel® Pentium® processor G2020 (2 Cores / 2 Threads, 2.90 GHz, 3 MB, Intel® HD Graphics)
	Intel® Celeron® processor G1610 (2 Cores / 2 Threads, 2.60 GHz, 2 MB, Intel® HD Graphics)
*with Intel® Turbo Boost Technology (clock speed and performance will vary depending on workload and other variables)	
<b>Operating systems</b>	
<b>Operating system</b>	Windows 8 Windows® 7 Home Premium 64-bit Windows® 7 Home Basic (EM) 32-bit
<b>Operating system compatible</b>	openSUSE Linux
<b>Operating system notes</b>	Limited Windows® XP support. Microsoft discontinued Windows® XP certification on system level, basic drivers via <a href="http://support.ts.fujitsu.com">http://support.ts.fujitsu.com</a>
<b>Memory modules</b>	
2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1333 MHz, PC3-10600, DIMM	
4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1333 MHz, PC3-10600, DIMM	
<b>Hard disk drives (internal)</b>	
HDD SATA III, 7200 rpm, 2000 GB, 3.5-inch	
HDD SATA III, 7200 rpm, 1000 GB, 3.5-inch	
HDD SATA III, 7200 rpm, 500 GB, 3.5-inch	
<b>Hard disk notes</b>	Up to 20 GB of HDD space is reserved for system recovery
<b>Graphics</b>	
NVIDIA® GeForce® GT630 DisplayPort 2GB FH, 2 GB	
NVIDIA® GeForce® 605 DisplayPort 1GB FH, 1 GB	
ATI Radeon® HD7350 1GB FH, 1 GB	
<b>Drives (optional)</b>	
DVD Super Multi	
MCR 24in1 & USB 3.0 front con., 3.5"	
MultiCard Reader 24in1 USB 2.0 3.5"	
<b>Interface add on cards/components (optional)</b>	
WLAN III, 802.11g/Draft-n (Windows only, dedicated regions only)	
USB 3.0 PCIe x1	
<b>Base unit</b>	ESPRIMO PH300 E85+
<b>Mainboard</b>	
<b>Mainboard type</b>	D2990
<b>Formfactor</b>	µATX
<b>Chipset</b>	Intel® H61
<b>Processor socket</b>	LGA 1155
<b>Processor quantity maximum</b>	1
<b>Memory slots</b>	2 DIMM (DDR3)
<b>Supported capacity RAM (max.)</b>	8 GB
<b>Memory frequency</b>	1333 MHz

**Mainboard**

Memory notes	Dual channel support. For dual channel performance, identical memory modules in each channel are necessary (minimum 2 modules).
LAN	10/100/1000 MBit/s Realtek RTL 8111E
BIOS version	AMI Aptio 4.6
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)
Audio codec	Realtek ALC663
Audio features	5.1 surround sound

**I/O controller on board**

Serial ATA total	4
Controller functions	Serial ATA II (3 Gbit) NCQ AHCI

**Interfaces**

Audio: line-in	1
Audio: line-in / microphone	1
Audio: line-out	1
Front audio: microphone	1
Front audio: headphone	1
USB 2.0 total	8
USB front	2
USB rear	4
USB internal	2
VGA	1
DVI	1 (DVI-D)
Mouse / Keyboard (PS/2)	2
Ethernet (RJ-45)	1

**Input device / components**

	Optical USB wheel mouse Keyboard
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**Drive bays**

Drive bays total	5
3.5-inch internal bays	2
3.5-inch external bays	1
5.25-inch external bays	2

**Slots**

PCI-Express 2.0 x16	1 x (210 mm / 8.27 inch) Full height
PCI-Express x1	2 x (190 mm / 7.48 inch) Full height

**Graphics on board**

Graphics brand name	Intel® HD Graphics, HD Graphics 2000, HD Graphics 2500, HD Graphics 4000 (depending on CPU)
Shared video memory	up to 1759 MB
TFT resolution (VGA)	1024 x 768 pixel 1280 x 1024 pixel 1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1600 x 1200 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel

**Graphics on board**

<b>TFT resolution (DVI)</b>	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel
<b>Graphics features</b>	Dual display support DirectX® 10.1 or DirectX® 11 (depending on CPU) HDCP support Open GL® 3.3 (depending on CPU) Open CL™ 1.1 (depending on CPU)
<b>Graphics notes</b>	Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size and operating system Resolution (color depth up to 32 Bit/pixel) For TFT we recommend using 60Hz

**Electrical values**

<b>Power efficiency note</b>	power supply efficiency (at 230V; 20% / 50% / 100% load) : 83% / 86% / 85% 0-Watt mode with hard-off switch
<b>Rated voltage range</b>	100 V - 240 V
<b>Rated frequency range</b>	50 Hz - 60 Hz
<b>Operating voltage range</b>	90 V - 264 V
<b>Operating line frequency range</b>	47 Hz - 63 Hz
<b>Max. output of single power supply</b>	330 W
<b>Power factor correction/active power</b>	active
<b>Monitor outlet</b>	No
<b>Power consumption</b>	

**Heat dissipation**

<b>Heat dissipation notes</b>	See white paper Energy Consumption
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**Noise for standard configuration (HDD, ODD)**

<b>Noise emission</b>	According to ISO9296
<b>Related Processors for noise</b>	Intel® Core™ i5 2400
<b>Noise Operation mode 1: ODD load (Blue angel requirement)</b>	5.0 B/ 36 dB(A)
<b>Noise Operation mode 2: HDD load (Blue angel requirement)</b>	3.7 B/ 23 dB(A)
<b>Noise Operation mode 3: CPU 90% load (Blue angel requirement)</b>	3.9 B/ 27 dB(A)
<b>Noise Operation mode 4: High load</b>	4.2 B/ 27 dB(A)
<b>Noise Operation mode 5: Office applications 2.0</b>	3.7 B/ 22 dB(A)
<b>Idle mode (Blue Angel requirement)</b>	3.7 B/ 22 dB(A)
<b>Noise notes</b>	A weighted sound power level Lw <sub>ad</sub> (in B) / workplace related A-weighted sound pressure level L <sub>pAm</sub> (in dB(A)), Bystander position

**Dimensions / Weight / Environmental**

<b>Dimensions (W x D x H)</b>	175 x 425 x 353 mm 6.89 x 16.74 x 13.9 inch
<b>Operating position</b>	Vertical
<b>Weight</b>	9 kg
<b>Weight (lbs)</b>	20.22 lbs
<b>Weight notes</b>	Actual weight may vary depending on configuration
<b>Operating ambient temperature</b>	10 - 35 °C (50 - 95 °F)

**Compliance**

Product	ESPRIMO PH300
Model	MI4W-2990
Europe	CE
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR®
Compliance link	<a href="https://sp.ts.fujitsu.com/sites/certificates/">https://sp.ts.fujitsu.com/sites/certificates/</a>

**Additional Software**

Additional software (preinstalled)	Adobe® Reader® Norton Internet Security (incl. Firewall) 60 days version Win7: Fujitsu Recovery (Hard Disk Based Recovery) Win8: Microsoft Push Button Recovery (Hard Disk Based Recovery) Don't forget Office.
Additional software (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD (BD/DVD playback software for Blu-ray Disc™) CyberLink PowerDVD (DVD playback software) Nero Essentials XL

**Miscellaneous****Compatibility (references)**

	DMI 2.0 PC 2001 WMI 1.5 USB 2.0 SMBIOS
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**Manageability**

Manageability technology	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) WoL (Wake on LAN)
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**Security**

System protection	Kensington Lock support Eye for padlock
Audit proof protection	Boot sector virus protection Control of external interfaces
Access protection	User and supervisor BIOS password Optional: Access protection via external SmartCard reader

**Packaging information**

Packaging dimension (mm)	540 x 290 x 500 mm
Packaging dimension (inch)	21.26 x 11.42 x 19.69 inch
Max. quantity / pallet	24
Material - Weight (g) Carton	1270 g
Material - Weight (lbs) Carton	2.8 lbs
Material - Weight (g) EPS / PS	160 g
Material - Weight (lbs) EPS / PS	0.35 lbs
Material - Weight (g) PE	60 g
Material - Weight (lbs) PE	0.13 lbs
Packaging notes	printed user documentation is bleached in chlorine free process

**Warranty**

Standard Warranty	1 year / 2 years (depending on country)
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**Warranty**

Service level	Collect & Return Service (for countries within region FTS CEMEA&I, for all other countries depending on local regulations, minimum: 1 year material warranty)
Warranty Terms & Conditions	<a href="http://support.ts.fujitsu.com/warranty">http://support.ts.fujitsu.com/warranty</a>
<b>Maintenance and Support Services - the perfect extension</b>	
Recommended Service	9x5, Response Time: Next Business Day
Spare Parts availability	3 years after end of product life
Service Weblink	<a href="http://www.fujitsu.com/fts/services/support">http://www.fujitsu.com/fts/services/support</a>

## Recommended Accessories

**CELVIN® Drive D100**

The CELVIN® Drive D100 is a highly reliable external storage device with a standard USB-interface for easy Plug & Play use with a notebook or PC. It is also easy to set up additional home network capacity by connecting it with dedicated routers or NAS devices.

Order Code:  
S26341-F103-L118

**HS E2000 Communicator Headset**

The Fujitsu HS E2000 Communicator headset allows you to use your personal computer for Voice over IP (VoIP) in stereo audio quality. This premium headset is designed to provide superb audio quality and comfort for the telephony, internet chat, speech recognition, video conferencing and multimedia applications.

Order Code:  
S26391-F7139-L5

**Wireless Keyboard Set LX900**

The Wireless Keyboard LX900 is a top of the line desktop solution for lifestyle orientated customers, who want only the best for their desk. This superb keyboard set with offers ambitious users more functions, security and better features than a conventional interface device. It even includes 2.4 GHz technology and 128 AES encryption for security.

S26381-K564-L4\*\* (\*\*:  
Country specific variation)

# More information

## Fujitsu OPTIMIZATION Services

In addition to Fujitsu ESPRIMO PH300 E85+, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

### Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

### Computing Products

[www.fujitsu.com/global/services/computing/](http://www.fujitsu.com/global/services/computing/)

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

## More information

Learn more about Fujitsu ESPRIMO PH300 E85+, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.  
[www.fujitsu.com/fts/ESPRIMO](http://www.fujitsu.com/fts/ESPRIMO)

## Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at <http://www.fujitsu.com/global/about/environment/>



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